

1. Find the missing digit: $92 - 29 = 82 - \underline{\quad}$.

- A. 19
- B. 63
- C. 39
- D. 21
- E. 31

2. What is the product of 2, 2, 2, 2, 2?

- A. 8
- B. 10
- C. 16
- D. 32
- E. 64

3. Sarah reads nine pages of a book each day. How many pages will she read in a week, including the weekend?

- A. 42
- B. 45
- C. 63
- D. 72
- E. 81

4. Find the missing number: $3 \times 6 \times 9 = 2 \times \underline{\quad}$.

- A. 18
- B. 27
- C. 36
- D. 63
- E. 81

5. Anna selected two numbers, each less than 1000. She found that their sum is 1997. What is their difference?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 7

6. How many 5¢ candies can you buy with 10 quarters?

- A. 50
- B. 25
- C. 20
- D. 10
- E. 5

7. Add three to the largest two digit number. Divide the result by three, and then add two to it. If you divide this result by nine, what is the final result?

- A. 4
- B. 6
- C. 8
- D. 9
- E. 12

8. Molly places 3 beads in a box on day 1. She places 7 beads on day 2. She then places 11 beads on day 3. She kept placing 4 more beads each day than the previous day. If she continues the same pattern, how many beads will she place in the box on the 47th day?

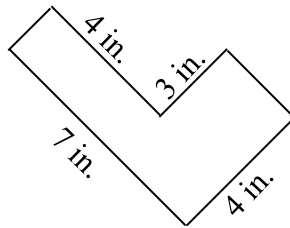
- A. 183
- B. 187
- C. 188
- D. 191
- E. 192

9. Ivanka has 18 pears. Tiffany said to Ivanka, "if you give me 3 pears, we will have equal number of pears". How many pears does Tiffany have, before Ivanka gave any pears to Tiffany?
- A. 24
 - B. 21
 - C. 18
 - D. 15
 - E. 12
10. Melania has some quarters, dimes, nickels, and pennies in her pocket. She counted the pennies and said she has exactly eight pennies. Which of the following could be the total value of money in Melania's pocket?
- A. 60
 - B. 61
 - C. 62
 - D. 63
 - E. 64
11. Ansley, Brandi, Courtney, and Debbie have their birth days on October 14th, July 10th, August 11th and October 10th in some order. Ansley and Debbie are born in the same month. Courtney and Debbie are born on the same date. What is Brandi's birth day?
- A. July 10th
 - B. August 11th
 - C. October 14th
 - D. October 10th
 - E. It cannot be determined based on the given information

12. How many of the whole numbers less than 10000 contain each of the digits 9, 8, 7 and 6?

- A. 6
- B. 12
- C. 18
- D. 24
- E. 48

13. What is the area of the below picture in square inches? The lengths of the sides are given in inches.



- A. 16
- B. 12
- C. 14
- D. 24
- E. 28

14. In 30 years, Hank will be three times as old as he is now. How old will he be in 15 years?

- A. 20
- B. 25
- C. 30
- D. 35
- E. 50

15. Five balloons cost 45 cents more than two balloons. How many cents does one balloon cost?
- A. 5
 - B. 9
 - C. 15
 - D. 20
 - E. 30
16. What is the ones digit of the product $409 \times 408 \times 407 \times 406 \times 405 \times 404 \times 403 \times 402$?
- A. 0
 - B. 1
 - C. 4
 - D. 6
 - E. 9
17. A frog is climbing up a well that has 45 steps. The well is slippery. Each day it climbs 5 steps. When it sleeps in the night, it slides 1 step. How many days will it take the frog to come to the top of the well?
- A. 9
 - B. 10
 - C. 11
 - D. 12
 - E. 13

18. Each letter P , Q , R and S in the subtraction below stands for different digits. What is the value of S ?

$$\begin{array}{r} R R P 5 \\ + Q P 7 P \\ \hline 1 S Q Q 3 \end{array}$$

- A. 9
B. 3
C. 6
D. 5
E. 4
19. Lindsay stood in a line for the movie tickets. She figured that she is 9th in the line both from the front and the back. How many people were in the line?
- A. 16
B. 17
C. 18
D. 19
E. 20
20. January 1, 2005 was a Saturday. What day was January 1, 2004 (a leap year)?
- A. Saturday
B. Sunday
C. Monday
D. Friday
E. Thursday

For any questions, you may reach us at support@mathusacademy.com or 2098-MATHUS (209.862.8487)